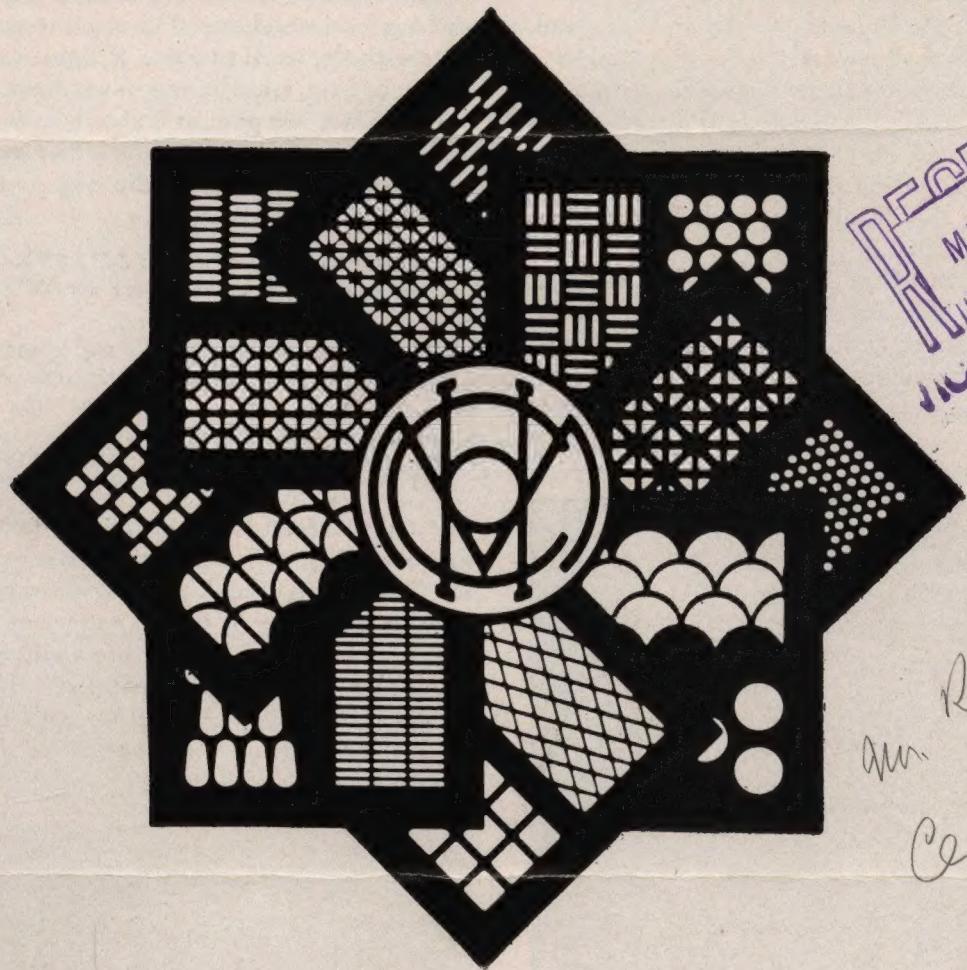


HENDRICK



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HENDRICK
MICHIGAN IRON WORKS

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Hendrick Bulators

Perforated Metal Grilles

Air Conditioning Grilles and Registers

Ornamental Perforated Metals

Mitco Open Steel Flooring—Shur-Site Treads—Armorgrids

HENDRICK MANUFACTURING COMPANY

Carbondale, Penna.

HENDRICK BULATOR

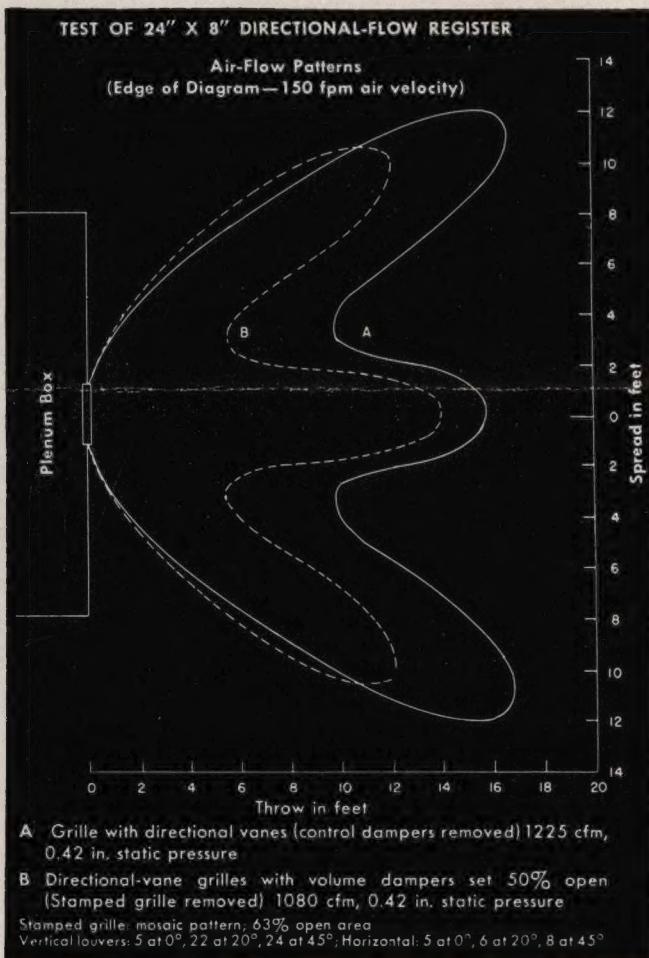
combines attractiveness
with ventilating efficiency

Hendrick Bulator* is the first practicable combination of an ornamental grille and a deflecting vane grille.

Properly placed behind the ornamental grille, the deflecting vanes of the Bulator give the air throw and spread specified by the engineer. The vanes are adjustable so that the air flow can be deflected to right or left, up or down, or in a combination of directions.

Although mounted just behind the ornamental metal grille, the deflecting grille is not noticeable, as will be seen from the illustration, made from an unretouched photograph.

Tests made at the Case Institute of Technology, Cleveland, under the direction of Professor G. L. Tuve, show that correctly designed ornamental metal grilles, properly mounted in front of the deflecting vanes, have little effect on the air stream pattern and air throw.



The first test was to determine the performance of the complete assembly consisting of a decorative grille attached to two sets of deflecting vanes (one vertical and one horizontal set). The vanes were set in accordance with the usual practice of right, straight and left throw, and up, straight and down throw. The general outline of the air pattern is shown in the sketch.

For the second test the horizontal deflecting vanes were removed and the following results were obtained:

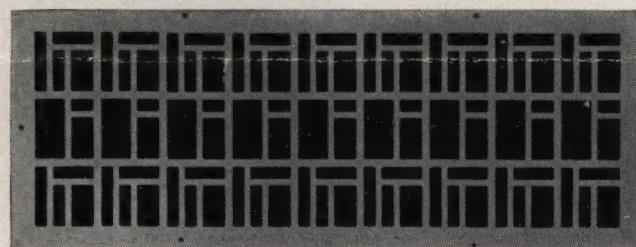
Performance of Hendrick 24" x 8" Register with wide-spreading vertical bars set 45° each way.

Air flow volume cubic feet per minutes.....	400	600	800	1000	1200
Total throw of air stream in feet.....	5.5	8.2	10.9	13.6	16.4
Resistance pressure in inches of water with grille attached.....	0.03"	0.08"	0.13"	0.21"	0.29"
with grille removed.....	0.02"	0.05"	0.09"	0.14"	0.20"

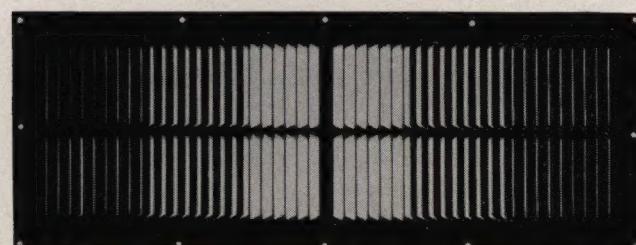
The report states: "In both series of tests it was found that at a given air volume, the presence or absence of the 'Mosaic' (pattern) grille made very little difference on either the air stream pattern or the throw."

Thus the Bulator enables the architect to combine with the air-conditioning system of a building, ornamental grilles which harmonize with the decorative scheme without appreciably affecting the air flow.

* Beauty + Ventilator



Photograph taken with deflecting vanes less than an inch behind grille, shows that vanes are not noticeable.



Vertical deflecting vanes, showing how the vanes may be set to produce any desired air stream pattern.

Hendrick Perforated Metal Grilles

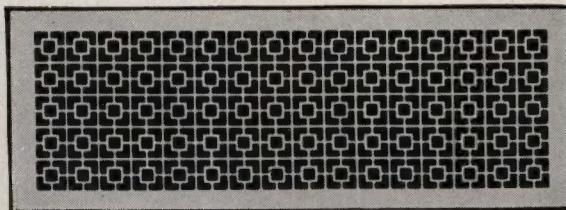
Hendrick Grilles, notable both for their beauty and utility, are made in a great variety of attractive designs, each of which can be supplied in a wide range of over-all dimensions, bar sizes, number of perforations and size of perforations.

This gives the architect a remarkable selection of standard grilles from which to choose. In addition to furnishing these standard numbers, if some special design of grille is desired Hendrick will gladly cooperate with the architect and make it to his specifications. In fact, many designs that are now standard in the Hendrick line were originally developed in this manner to harmonize with the decorative motif chosen by an architect for some fine public building or residence.

Hendrick Grilles are made in accurate sizes, with clean-cut perforations and with no burrs or other imperfections, in heavy-gauge aluminum, bronze, copper, Monel, steel and stainless steel.

Installation is easy because a special flattening operation in their manufacture gives the grilles uniformly flat surfaces.

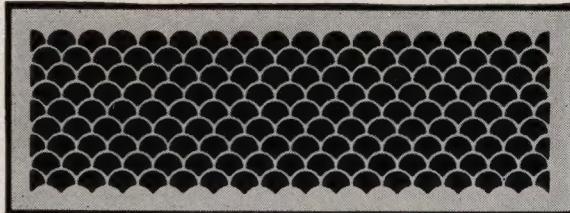
In the Hendrick Grille Catalog, a copy of which will be sent on request, more than a hundred grille designs are shown in scale, with full-size photographs of grille sections.



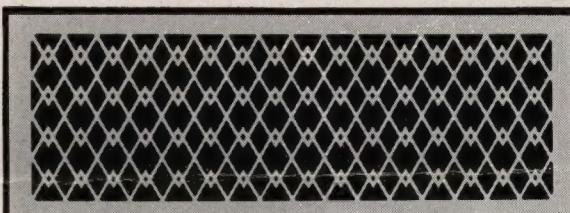
2" Link, 56% Open Area



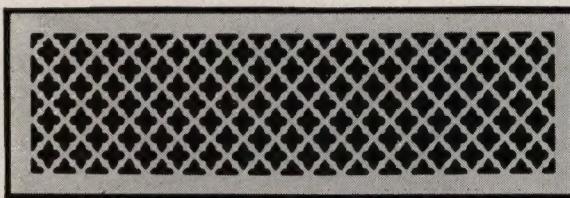
Chevron, 56 % Open Area



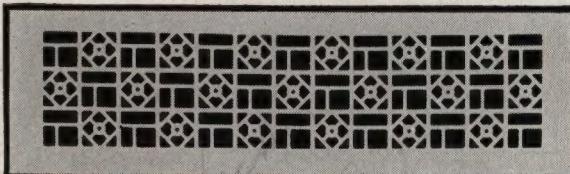
1 3/4" Shell, 72% Open Area



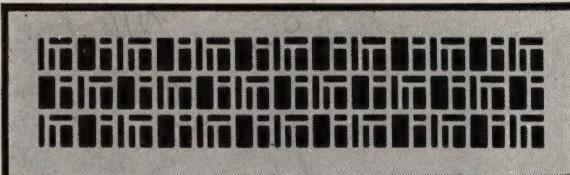
M No. 9, 67% Open Area



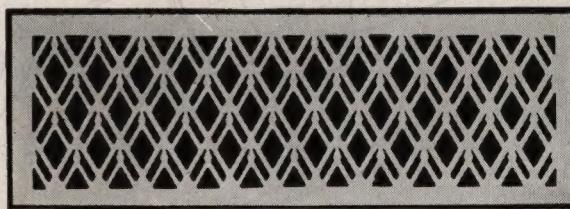
Gothic Cloverleaf, 65% Open Area



Arglin, 63% Open Area



Mosaic, 63 % Open Area



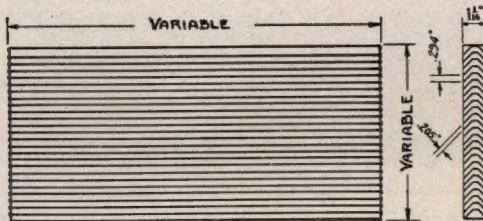
M No. 2, 57% Open Area

Air Conditioning Grilles and Registers

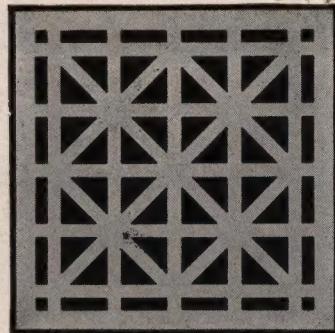
Hendrick air conditioning grilles and registers for directed air flow are made in various meshes, the standards having $\frac{1}{2}$ " or $\frac{3}{8}$ " opening between face bars. All types are furnished with either horizontal or vertical directional bars either permanently set or

so that they may be individually adjusted on the job to direct air flow to any desired degree. Grille and register faces are made regularly of steel with prime coat finish. Can be furnished in a lacquered finish to match any color sample.

Fixed Louver Grilles



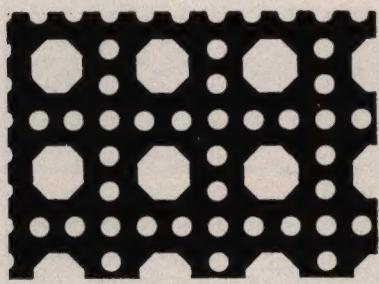
A popular item in the Hendrick line is a door grille developed primarily for hotels and hospitals, but also suitable for bathroom doors in houses. Constructed with a series of strips bent at a fixed angle and rigidly fastened in a band frame, the grille permits free circulation of air but obstructs vision in any direction. Hendrick Fixed Louver Grilles, regularly furnished in No. 18 U. S. gauge steel, are easily installed in any door.



Loud Speaker Grille adapted
for Hospital use

Hendrick Ornamental Perforated Metal

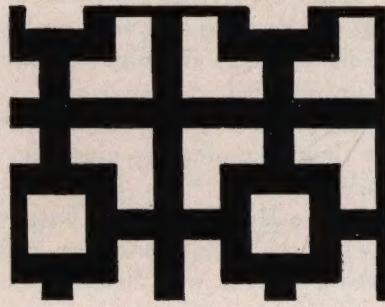
This is designed for use where an attractive, lightweight grille is desired, lower in cost than the regular line of custom-made Hendrick Grilles. Hendrick Ornamental Perforated Metal is especially suitable for radiator enclosures, stove panels, kitchen cabinets, machinery guards, and similar applications.



CANE Style "A"
36 % Open Area



CLOVERLEAF Style "B"
51 % Open Area



LINK
48 % Open Area

Hendrick Mitco Open Steel Flooring Shur-Site Treads and Armorgrids

Hendrick Mitco Open Steel Flooring is formed under hundreds of tons of hydraulic pressure, and has none of the weaknesses of bolted, riveted or welded gratings. Every Mitco panel is a rugged, integral unit that will support heavy loads without lateral deflection. 90% open area assures maximum light and ventilation and the rectangular square-edge bars provide a thoroughly safe, non-slipping, level walking surface.

Shur-Site Treads—for stairs, ladders and fire escapes—are integral units of Mitco Open Steel Flooring, with all Mitco advantages. A heavy, flanged nosing bar makes each step distinctly visible—for accident prevention—and also gives additional strength at the point of heaviest loading.

Hendrick Mitco Armorgrids, for floors, loading platforms, ramps and driveways, stand up under the heaviest traffic. They may be used with fill of concrete, cement, asphalt, or composition material. Shipped completely fabricated, Hendrick Armorgrids are easy and economical



to install, do not depend on the fill for development of full strength in resisting shock loads; never require replacement.

Consult Your Architect or Engineer

HENDRICK MANUFACTURING COMPANY

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